

Title (en)
SLIDING LAYER GRIPPING DEVICE AND RELATIVE LAYER TRANSFER METHOD

Title (de)
GLEITSCHICHTGREIFVORRICHTUNG UND ENTSPRECHENDES SCHICHTTRANSFERVERFAHREN

Title (fr)
DISPOSITIF DE PRÉHENSION D'UNE COUCHE DE GLISSEMENT ET PROCÉDÉ DE TRANSFERT DE COUCHE RELATIF

Publication
EP 3453657 A1 20190313 (EN)

Application
EP 18193343 A 20180910

Priority
IT 201700101384 A 20170911

Abstract (en)
A sliding layer gripping device comprising an anthropomorphic robot (11) and a gripping head (12) mounted on the robot (11) for picking a first layer of products (15') of a pallet (17), wherein the gripping head (12) comprises a main frame (20) and also an upper compaction unit (30, 30') and an intermediate translation plane (40) arranged on the main frame (20), the frame (20) being connected to the intermediate translation plane (40) and to the upper compaction unit (30, 30') with a first pair of linear translation guides (101) and a second pair of linear translation guides (102), respectively, arranged parallel to each other on the inner side of the sides of the main frame (20), a pair of belts (31) moved by a brushless motor (32) controlled by the robot (11) being arranged between the main frame (20) and the upper compaction unit (30, 30') for the relative sliding of the main frame (20) and of the upper compaction unit (30, 30') with respect to the intermediate translation plane (40) according to parallel planes, and substantially horizontal in operation, wherein the intermediate translation plane (40) has a loading side (40A) of the layer (15') opposite to an unloading side (40B) of the layer (15'). A relative layer transfer method also forms the object of the invention.

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Citation (applicant)
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Citation (search report)
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CN111003519A

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